

Quality Assurance Surveillance Plan for STREAMS2 GIS Metadata

Performance Objective (Task)	Activities	Deliverables	Dates of Delivery	Acceptable Criteria
Task 1. Obtain GIS Data, Geoprocessing Descriptions, and Metadata Sources and Create Draft Metadata Using EME (v3.0) for the 82 Sample Points and Watershed Polygons that Meet EPA standards and FGDC Compliance as Tested by the EME Validate Tool	The contractor shall review the GIS data and sources of metadata listed in the references and table 1 and the geoprocessing descriptions in figure 1 and Appendix A so as to produce a draft metadata for the shapefiles of the 82 sample points and watershed polygons meeting EPA standards and being FGDC compliant. The draft metadata of those two GIS datasets shall be viewable in ArcGIS 9.3.1. Examples of metadata content include giving the units of measurements for the physical habitat and water chemistry variables measured at the sample points, fish species names collected at the sample points and their abundances, and providing citations of reports and journal	Deliverables: A draft of the metadata that is included with the GIS data for the 82 sample points and watershed polygons that meets EPA standards and is FGDC compliant and can be viewed in ArcGIS 9.3.1.	Within six weeks of the start of the contract. The Task Order Contracting Officer (TOCOR) will respond with comments on that draft metadata within two weeks of receipt.	A draft of the metadata for the two GIS shapefiles delivered as scheduled.

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	<p>articles describing the methods used to collect the data. The specific physical habitat variables used in the multivariate spatial data analysis include: thalweg mean depth (cm), mean wetted width (m), and mean embeddedness of the channel plus margins (%). The specific water chemistry variables include: concentrations (mg/L) of calcium (Ca^{2+}), chloride (Cl^-), manganese (Mn), and sulfate (SO_4^{2-}) as well specific conductance ($\mu\text{S}/\text{cm}$). Appendix B contains the fish species name and the concatenated form of the names used in the GIS point shapefile NEWdnr_elev_n82meta. If EPA standards and FGDC compliance cannot be met the contractor shall describe what additional metadata would be required to</p>			
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	meet those standards and compliance.			
Task 3: Produce a final version of the metadata meeting EPA Standards and FGDC compliance	The contractor shall create a final version of the metadata based on comments received from the TOCOR that meet EPA standards and FGDC compliance.	GIS datasets containing metadata of the 82 sample points and watershed polygons that meet EPA standards and FGDC compliance. The contractor shall also send the TOCOR a report that describes how the metadata were validated to meet FGDC and EPA standards.	Within four weeks after the TOCOR has responded with comments on the metadata produced under Task 2.	Final version of GIS data of 82 sample points and 82 watershed polygons that have metadata that have been validated to meet EPA standards and FGDC compliance and are delivered as scheduled.